

Checklist of Eumolpidae (Coleoptera, Chrysomeloidea) from Mao'ershan region including one new record species from China

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Abstract: Thirty-six species and 1 subspecies belonging to 12 genera, 3 subfamilies of the family Eumolpidae collected from Mao'ershan region (Heilongjiang Province) of China are listed in this paper, including one new record species, *Cryptocephalus yamadai* Chûjô, 1940, from China. Description and photos of the new record species are also provided.

Keywords: Eumolpidae; *Cryptocephalus yamadai*; New record species; China.

Introduction

Eumolpidae, one of the very large families of the phytophagous Coleoptera, involves approximately 9 000 species with a worldwide distribution (Lopatin 1977; Gruiev & Tomov 1984; Gruiev 1992; Tan 1985, 2005). In China, this family has been described over 700 species to date (Tan *et al.* 1980, 2005). Their adults feed on the foliage of plants in a wide range of angiosperm families, while larvae live in soil, plant tissues, or leaves. Many plant species suffer from severe damage of Eumolpidae insects.

The family Eumolpidae has been systematically studied in all provinces of China (Gressitt & kimoto 1961, 1963, 1965; Chen 1940, 1964, 1973 1985; Tan *et al.* 1980, 2005; Tan 1994; Zhou 1997, 1999a, 1999b), except in Heilongjiang Province. In this paper, 36 species and 1 subspecies belonging to 12 genera, 3 subfamilies of the family Eumolpidae collected from Mao'ershan region (Heilongjiang Province) are listed, including one new record species, *Cryptocephalus yamadai* Chûjô 1940 from China, and three new record species from Heilongjiang Province. All the specimens examined were stored in the Insect Collection at Northeast Forestry University.

Checklist of family Eumolpidae from Mao'ershan region

Eumolpinae

Basilepta Baly, 1860

(1) *Basilepta fulvipes* (Motschulsky, 1860)

Material examined: 3 ♂♂, Mao'ershan, 7-VI-2005, Li Cheng-de; 1 ♀, Mao'ershan, 14-VI-2005.

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Host plants: *Cerasus pseudocerasus* (Lindl.), *Pyrus L.*, *Malus pumila* Mill., *Prunus salicina* Lindl., *Artemisia L.*, *Pterocarya stenoptera* C.DC., *Inula japonica* Thunb.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Ningxia, Hebei, Beijing, Shanxi, Shaanxi, Shandong, Hubei, Jiangxi, Hunan, Jiangsu, Zhejiang, Fujian, Taiwan, Guangxi, Sichuan, Guizhou, Yunnan), Korea, Japan, Russia (Siberia).

Pagria Lefèvre, 1884

(2) *Pagria signata* (Motschulsky, 1858)

Material examined: 4 ♂♂, 2 ♀♀, Mao'ershan, 2-VII-1981.

Host plant: Leguminosae.

Distribution: China (Heilongjiang, Liaoning, Hebei, Shaanxi, Jiangsu, Anhui, Zhejiang, Hubei, Jiangsu, Fujian, Taiwan, Guangdong, Guangxi, Hainan, Sichuan, Yunnan, Tibet), Korea, Japan, Russia (Siberia), Vietnam, Laos, Burma, Thailand, India, Indonesia, Guam (Pacific Ocean), Philippines.

Bromius Chevrolat, 1837

(3) *Bromius obscurus* (Linnaeus, 1758)

Material examined: 1 ♂, Mao'ershan, 25-VI-2006, Long Sha.

Host plant: *Vitis vinifera* L.

Distribution: China (Heilongjiang, Gansu, Hebei, Shanxi, Jianshu, Hunan, Sichuan, Guizhou, Tibet), Korea, Japan, Russia, Europe, North America.

Cleoporus Lefèvre, 1884

(4) *Cleoporus variabilis* (Baly, 1874)

Material examined: 1 ♂, 2 ♀♀, Mao'ershan, 26-VII-1974; 2 ♀♀, Jianlagou, 14-VII-2006, Pan Zhao-hui.

Host plants: *Prunus salicina* Lindl., *Amygdalus persica* L., *Pyrus L.*, *Malus pumila* Mill., *Rosa L.*, *Rosa chinensis* Jacq., *Potentilla chinensis* Ser., *Ziziphus acidojujuba* C.Y.Cheng et M.J.Liu, *Quercus acutissima* Carruth., *Salix dunnii* Schneld.

Distribution: China (Heilongjiang, Liaoning, Beijing, Hebei, Shanxi, Shaanxi, Shandong, Jiangsu, Zhejiang, Jiangxi, Hunan, Fujian, Taiwan, Guangdong, Hainan, Guangxi, Sichuan, Guizhou, Yunnan), Korea, Japan, Russia (Siberia), Vietnam, Laos, Kam-puchea, Thailand.

Chrysochus Chevrolat, 1837

(5) *Chrysochus chinensis* Baly, 1859

Material examined: 8 ♂♂, 1 ♀, Mao'ershan, 17-VI-1961; 3 ♀♀, Laoshan, 10-VII-1976; 11 ♂♂, 7 ♀♀, Mao'ershan, 24-VII-2006, Li Zhi-qin.

Host plants: *Solanum melongena* L., *Ipomoea batatas* L., *Astragalus* L., *Apocynum* L., *Datura stramonium* L., *Cynanchum chinense* R. Br.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Gansu, Qinghai, Hebei, Shanxi, Shaanxi, Shandong, Henan, Jiangsu, Zhejiang, Jiangxi), Korea, Japan, Russia (Siberia).

Colasposoma Castelnau, 1833

(6) *Colasposoma dauricum dauricum* Mannerheim, 1849

Material examined: 1 ♂, Mao'ershan, VII-1971.

Host plants: *Ipomoea batatas* L., *Calystegia hederacea* Wall., *Ipomoea aquatica* Forsk.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Ningxia, Gansu, Qinghai, Xinjiang, Beijing, Hebei, Shanxi, Shaanxi, Shandong, Henan, Jiangsu, Anhui, Hubei, Sichuan), Korea, Japan, Russia (Siberia).

Clytrinae

Clytra Laicharting, 1781

(7) *Clytra laeviuscula* Ratzeburg, 1837

Material examined: 1 ♂, 2 ♀♀, Laoshan, 19-VII-1964; 3 ♂♂, Mao'ershan, 2-VI-2005, Zhang Xiao-nan.

Host plants: *Salix* L., *Betula* L., *Ulmus pumila* L., *Fagus* L.

Distribution: China (Heilongjiang, Jilin, Inner Mongolia, Hebei, Beijing, Shanxi, Shaanxi, Shandong, Jiangsu, Jiangxi), Korea, Japan, Russia (Siberia), Europe.

(8) *Clytra quadripunctata* Linnaeus, 1758

Material examined: 2 ♂♂, Mao'ershan, 3-VIII-2005, Li Cheng-de; 1 ♀, Mao'ershan, 24-VII-2006, Li Zhi-qin.

Host plants: *Populus* spp., *Salix* L., *Polygonum bistorta* Polen.

Distribution: China (Heilongjiang, Jilin, Liaoning, Sinkiang), Russia (Siberia), Europe.

Coptocephala Lacordaire, 1848

(9) *Coptocephala asiatica* Chûjô

Material examined: 3 ♂♂, Mao'ershan, 28-V-2005, Li Xing-peng.

Host plant: *Artemisia* spp.

Distribution: China (Heilongjiang, Jilin, Inner Mongolia, Hebei, Beijing, Shanxi, Qinghai, Shaanxi), Korea, Japan.

Labidostomis Germar, 1817

(10) *Labidostomis bipunctata* (Mannerheim), 1825

Material examined: 5 ♂♂, 1 ♀, Laoyeling, 8-VI-2005, Zhang Xiao-nan; 3 ♂♂, Laoshan, 5-VII-2006, Li Zhi-qin.

Host plants: *Lespedeza floribunda* Bunge., *Populus cathayana* Rehd., *Ulmus pumila* L.

Distribution: China (Heilongjiang, Liaoning, Inner Mongolia, Beijing, Hebei, Shanxi, Shaanxi, Shandong, Gansu), Korea, Russia (Siberia).

(11) *Labidostomis chinensis* Lefèvre

Material examined: 1 ♂, Laoshan, 15-VI-1964; 2 ♂♂, Mao'ershan, 17-VI-2006, Long Sha; 3 ♂♂, Mao'ershan, 17-VI-2006, Long Sha.

Host plants: *Lespedeza* Michx., *Populus cathayana* Rehd.

Distribution: China (Heilongjiang, Liaoning, Inner Mongolia,

Shandong, Beijing, Hebei, Shanxi, Gansu, Shaanxi), Korea, Russia (Siberia), North America.

(12) *Labidostomis orientalis* Chûjô

Material examined: 3 ♂♂, Mao'ershan, 7-VIII-2005, Li Cheng-de; 2 ♂♂, 4 ♀♀, Mao'ershan, 7-VIII-2005, Li Cheng-de.

Host plant: *Salix* spp.

Distribution: China (Heilongjiang, Liaoning), Korea, Russia (Siberia).

(13) *Labidostomis tridentata* (Linnaeus, 1758)

Material examined: 1 ♂, Laoshan, 2-VIII-1983; 2 ♂♂, 1 ♀, Laoshan, 11-VII-1983.

Host plant: *Iberis Amara*.

Distribution: China (Heilongjiang, North of China), Russia (Siberia), Europe.

Comments: This species is firstly recorded from Heilongjiang Province.

Smaragdina Chevrolat, 1837

(14) *Smaragdina aurita hammarstraemi* (Jacobson)

Material examined: 6 ♂♂, Laoyeling, 27-VI-2006, Li Xing-peng; 2 ♂♂, Mao'ershan, 3-VII-2006, Long Sha; 1 ♀, Mao'ershan, 3-VII-2006, Long Sha.

Host plants: *Populus* spp., *Salix* L., *Betula* L., *Polygonum capitatum* Buch, *Styrax japonicus* Sieb. et Zucc.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Hebei, Beijing, Shanxi, Shaanxi, Shandong, Jiangsu, Zhejiang), Korea, Japan, Russia (Siberia).

(15) *Smaragdina mandzhura* (Jacobson, 1925)

Material examined: 5 ♂♂, Mao'ershan, 20-VII-2005, Zhang Xiao-nan; 1 ♂, Mao'ershan, 29-VI-2006, Li Xing-peng; 2 ♀♀, Mao'ershan, 29-VI-2006, Long Sha.

Host plants: *Ziziphus acidojujuba* C.Y. Cheng et M.J. Liu, *Ulmus pumila* L.

Distribution: China (Heilongjiang, Jilin, Gansu, Hebei, Shanxi, Shandong), Korea, Japan, Russia (Siberia).

(16) *Smaragdina obscuripes* (Weise)

Material examined: 3 ♂♂, Laoshan, 29-VI-1999.

Host plant: *Crataegus* L.

Distribution: China (Heilongjiang), Russia (Siberia).

(17) *Smaragdina semiaurantiaca* (Fairmaire, 1888)

Material examined: 3 ♂♂, 2 ♀♀, Mao'ershan, 17-VI-2006, Li Zhi-qin.

Host plants: *Pyrus* L., *Armeniaca vulgaris* Lam., *Malus pumila* Mill., *Ulmus pumila* L.

Distribution: China (Heilongjiang, Jilin, Hebei, Beijing, Shandong, Shaanxi, Jiangsu, Hubei), Korea, Japan.

Cryptocephalinae

Cryptocephalus Geoffrey

(18) *Cryptocephalus bipunctatus cautus* Weise, 1893

Material examined: 4 ♂♂, Laoshan, 15-VII-1975; 2 ♂♂, Mao'ershan, 4-VII-2006, Li Xing-peng.

Host plant: *Quercus mongolica* Fisch. et Ledeb.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Hebei, Shaanxi, Shandong, Jiangsu), Korea, Russia (Siberia, Far East).

(19) *Cryptocephalus cunctatus* Clavareau, 1913

Material examined: 2 ♂♂, Laoyeling, 27-VI-2006, Li Xing-peng.

Host plants: *Quercus* L., *Corylus* L.

Distribution: China (Heilongjiang, Liaoning, Hebei), Mongolia.

Comments: This species is firstly recorded from Heilongjiang Province.

(20) *Cryptocephalus confusus* Suffrian, 1854

Material examined: 5 ♂♂, Mao'ershan, 20-VII-2005, Zhang Xiao-nan; 1 ♂, Mao'ershan, 29-VI-2006, Li Xing-peng; 2 ♀♀, Mao'ershan, 29-VI-2006, Long Sha.

Distribution: China (Heilongjiang, Liaoning, Hubei, Jiangsu, Zhejiang), Korea, Japan, Russia (Siberia), Mongolia.

(21) *Cryptocephalus regalis regalis* Gebler, 1830

Material examined: 2 ♂♂, 3 ♀♀, Mao'ershan, 26-VII-2006, Long Sha.

Host plants: *Salix* spp.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Gansu, Hebei), Korea, Japan, Russia (Siberia).

(22) *Cryptocephalus peliopterus peliopterus* Solsky, 1871

Material examined: 1 ♂, Laoshan, 30-VI-1981; 2 ♀♀, Mao'ershan, 23-VI-2006, Long Sha.

Host plants: *Ziziphus acidojujuba* C.Y. Cheng et M.J. Liu, *Ziziphus jujube* Mill., *Rhamnus globosa* Bunge.

Distribution: China (Heilongjiang, Liaoning, Hebei, Beijing, Shanxi, Shaanxi, Shandong), Korea, Japan, Russia (Siberia, Far East).

(23) *Cryptocephalus koltzei* Weise, 1887

Material examined: 2 ♂♂, 1 ♀, Mao'ershan, 3-VIII-2006, Li Jue-wen.

Host plant: *Artemisia* L.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Gansu, Shanxi, Shaanxi, Hebei, Jiangsu, Hubei), Korea, Russia (Siberia).

(24) *Cryptocephalus coerulans* Marseul, 1875

Material examined: 4 ♂♂, 3 ♀♀, Mao'ershan, 27-VI-2006, Li Xing-peng; 1 ♂, Laoyeling, 3-VII-2006, Li Xing-peng.

Host plant: *Lespedeza bicolor* Turcz.

Distribution: China (Heilongjiang, Jilin, Liaoning, Hebei, Shanxi), Korea, Japan, Russia (Siberia, Far East), Mongolia.

(25) *Cryptocephalus kulibini kulibini* Gebler, 1832

Material examined: 1 ♂, Jianligou, 16-VII-2005, Zhang Xiao-nan; 3 ♂♂, 2 ♀♀, Mao'ershan, 29-VI-2006, Li Xing-peng.

Host plant: *Lespedeza bicolor* Turcz.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Gansu, Hebei, Shaanxi, Shanxi, Shandong), Korea, Russia (Siberia, Far East), Mongolia.

(26) *Cryptocephalus lemniscatus* Suffrian, 1854

Material examined: 2 ♂♂, 2 ♀♀, Laoshan, 28-V-1999; 11 ♂♂, 8 ♀♀, Mao'ershan, 9-VI-2006, Li Zhi-qin.

Host plant: *Ulmus pumila* L.

Distribution: China (Heilongjiang, Liaoning, Inner Mongolia, Hebei, Beijing, Shanxi, Shaanxi, Shandong), Russia (Far East), Mongolia.

(27) *Cryptocephalus licenti* Chen, 1942

Material examined: 6 ♂♂, Laoshan, 27-VI-1998.

Host plant: *Lespedeza bicolor* Turcz.

Distribution: China (Heilongjiang, Hebei, Shanxi, Gansu).

Comments: This species is firstly recorded from Heilongjiang Province.

(28) *Cryptocephalus mannerheimi* Gebler, 1825

Material examined: 3 ♂♂, Mao'ershan, 20-VII-2005, Zhang Xiao-nan.

Host plants: *Acer ginnala* Maxim., *Ulmus pumila* L.

Distribution: China (Heilongjiang, Liaoning, Inner Mongolia, Hebei, Shanxi), Korea, Japan, Russia (Siberia, Far East), Mongolia.

(29) *Cryptocephalus ochrolooma* Gebler, 1830

Material examined: 7 ♂♂, Mao'ershan, 17-VI-1961; 6 ♂♂, 3 ♀♀, Laoshan, 10-VII-1976; 4 ♂♂, Mao'ershan, 24-VII-2006, Li Zhi-qin.

Host plants: *Ulmus pumila* L., *Salix* L.

Distribution: China (Heilongjiang, Jilin, Liaoning, Inner Mongolia, Gansu, Hebei, Shanxi), Korea, Russia (Siberia, Far East), Mongolia.

(30) *Cryptocephalus pilosellus* Suffrian, 1854

Material examined: 2 ♀♀, Laoshan, 11-VII-2004; 3 ♂♂, 1 ♀, Mao'ershan, 2-VI-2005, Zhang Xiao-nan.

Host plants: *Ulmus pumila* L., *Ziziphus acidojujuba* Cheng et Liu.

Distribution: China (Heilongjiang, Hebei, Beijing, Shanxi, Shaanxi, Shandong), Russia (Siberia), Mongolia.

(31) *Cryptocephalus pustulipes* Ménétriés, 1836

Material examined: 3 ♂♂, 2 ♀♀, Mao'ershan, 3-VIII-2005, Li Cheng-de.

Host plants: *Quercus* L., *Salix* L.

Distribution: China (Heilongjiang, Liaoning, Inner Mongolia, Gansu, Shanxi, Jiangsu, Zhejiang, Jiangxi, Sichuan), Korea, Japan, Russia (Siberia), Mongolia.

(32) *Cryptocephalus regalis cyanescens* Weise, 1887

Material examined: 7 ♂♂, 3 ♀♀, Mao'ershan, 3-VII-2006, Pan Zhao-hui; 2 ♂♂, 5 ♀♀, Mao'ershan, 4-VII-2006, Li Xing-peng.

Distribution: China (Heilongjiang, Jilin, Inner Mongolia, Qinghai, Hebei, Shanxi, Shaanxi, Shandong, Jiangsu), Russia (Siberia).

(33) *Cryptocephalus regalis regalis* Gebler, 1830

Material examined: 4 ♂♂, Laoshan, 28-V-1969; 1 ♂, 2 ♀♀, Mao'ershan, 29-VI-2006, Long Sha.

Distribution: China (Heilongjiang, Jilin, Inner Mongolia, Hebei, Shanxi, Shaanxi, Jiangsu, Hubei, Taiwan), Korea, Japan, Russia (Siberia, Far East), Mongolia.

(34) *Cryptocephalus limbellus semenovi* Weise, 1889

Material examined: 1 ♂, Mao'ershan, 4-VII-1976; 2 ♂♂, Mao'ershan, 29-VI-2006, Li Zhi-qin.

Distribution: China (Heilongjiang, Jilin, Inner Mongolia, Gansu, Qinghai, Hebei, Shanxi, Shandong), Japan, Russia (Siberia).

(35) *Cryptocephalus stchukini* Faldermann, 1835

Material examined: 6 ♂♂, 5 ♀♀, Laoyeling, 14-VII-2005, Zhang Xiao-nan; 1 ♂, 2 ♀♀, Mao'ershan, 29-VI-2006, Li Xing-peng.

Host plant: *Ulmus pumila* L.

Distribution: China (Heilongjiang, Jilin, Inner Mongolia, Gansu, Qinghai, Xinjiang, Hebei, Shanxi), Russia (Siberia, Far East), Mongolia.

(36) *Cryptocephalus yamadai* Chûjô, 1940 (new record species from China)

Description: Male (Fig. 1-1). Body length 5.0–5.5 mm, elongate-columnar. Head, pronotum and elytra metallic blackish blue; ventral side of body and legs bluish black (only tarsi fuscescent), covered with long dense pale pubescent, coxae of foreleg with a fulvous speckles. Antenna with segments fulvous, 8–10 segments darker than others, first segment conspicuously robust and outside light black, second subglobose, third two times longer than second, fourth as long as second and third combined. Head with front flavous, with a long speckle in inside of each eye, labrum concave anteromedially; clypeus fulvous, covered with sparse long hairs. Pronotum distinctly wider than long (1: 0.7), scattered with white erect short hairs, moderately densely punctate.

Scutellum nearly rectangle, without puncture. Elytra coarsely and densely punctate, scattered with white long hairs, surface transversely rugous. Aedeagus upside swollen and the apex truncate (Fig. 1-2, 3).

Material examined: 2♂♂, Laoshan, 12-VII-1959.

Distribution: China (Heilongjiang); Korea, Japan.

Remarks: Kimoto (1964) suggested that *Cryptocephalus ainu* Chūjō might be a synonym of *C. yamadai* Chūjō. According to his study (1966) on the type of *C. yamadai* Chūjō, deposited in the Taiwan Agricultural Research Institute, *C. yamadai* is no doubt identical with *C. ainu* Chūjō, described from Japan (Hokkaido).



Fig. 1 *Cryptocephalus yamadai* Chūjō, 1940 (new record species from China)

1. Adult (male); 2 Aedeagus (dorsal view); 3 Aedeagus (lateral view)

Pachybrachys Redtenbacher, 1845

(37) *Pachybrachys ochropygus* Solsky

Material examined: 5♂♂, Mao'ershan, 20-VII-2005, Zhang Xiao-nan; 1♂, Mao'ershan, 29-VI-2006, Li Xing-peng; 2♀♀, Mao'ershan, 29-VI-2006, Long Sha.

Host plant: *Salix* L.

Distribution: China (Heilongjiang, Liaoning, Gansu, Sinkiang, Hebei, Beijing, Shanxi, Anhui, Sichuan), Korea, Russia (Siberia).

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